

# **Presentation Abstracts with Speaker Biographies**

## **Managing Wet Weather with Green Infrastructure**

**Tamara Mittman** 

ORISE Fellow, Office of Wastewater Management, EPA

Tamara will discuss the principles and practice of green infrastructure and reviews EPA's efforts to promote the integration of green infrastructure into regulatory standards and community design. In contrast to conveyance and storage-based approaches to stormwater management, green infrastructure recognizes the connection between runoff quantity and water quality and uses natural processes as well as engineered systems to reduce, retain, and treat runoff on-site. In January 2008, EPA released its Green Infrastructure Action Strategy to advance knowledge and application of green infrastructure techniques. Elements of the strategy are discussed - including actions to promote the integration of green infrastructure into regulatory standards - and several innovative permits are presented. The presentation will also review available resources for municipalities, planners, design professionals, and other interested partners.

Tamara Mittman is an Oak Ridge Institute of Science and Education Fellow at the U.S. Environmental Protection Agency Office of Wastewater Management. Tamara provides technical assistance to the NPDES Municipal Stormwater Program, and general support to the Green Infrastructure Program. Tamara has a Masters degree in Geography from the University of North Carolina at Chapel Hill, and a B.A. in Environmental Engineering from Harvard College. She has worked with the Parks and People Foundation in Baltimore, Maryland, the Alameda County Water District in Fremont, California, and Redwood National Park near Arcata, California.

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### **Benefits of Green Infrastructure**

#### Chris Kloss

Senior Environmental Scientist, Low Impact Development Center

Much of the current focus on green infrastructure emphasizes the water quality benefits that it offers. It can also provide additional environmental and economic benefits, including air quality improvements, urban heat island reduction, energy conservation, and potable water conservation.



Chris Kloss is a Senior Environmental Scientist at the Low Impact Development Center whose research focuses on how green infrastructure and low impact development can limit wet weather pollution, enhance infrastructure performance, and provide multiple environmental benefits. Chris is also the Center's lead on environmental policy issues, evaluating how regulatory approaches and incentives can be used for comprehensive environmental protection strategies.

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## **GI-LID Update & EPA-R6 Regulatory Initiatives**

#### Suzanna Perea

Permits and Technical Section, EPA Region 6 Water Quality Protection Division

Suzanna earned a BS in Chemistry and an MS in Environmental Management from Hardin-Simmons University in Abilene, Texas. For the past eleven years, Suzanna has worked as an environmental scientist in a variety of Clean Water Act programs at the state and federal level. Currently, she coordinates EPA's Region 6 Green Infrastructure Program efforts in promoting the benefits of implementing green infrastructure practices to improve water quality and quantity, and support climate change and energy saving efforts.

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#### **Local Incentives and Codes**

#### **Chris Kloss**

Senior Environmental Scientist, Low Impact Development Center

Institutional issues often slow the pace of green infrastructure implementation. Several municipalities have revised local codes and offered regulatory or economic incentives to encourage broader adoption of green infrastructure. This session will examine stormwater regulations, development incentives, and utility fees as methods to promote better stormwater management.

(Biography appeared previously in document)

#### **Retrofits**

### **Chris Kloss**

Senior Environmental Scientist, Low Impact Development Center



In urban areas roofs and pavement generate large volumes of stormwater. Transportation rights-of-way (roads, curbs, sidewalks), parking lots, and rooftops are often the "low-hanging fruit" and are amenable to a number of retrofits that can address urban runoff. The impacts of urban stormwater on existing water quality and examples of what several communities have done to address runoff with urban retrofits will be presented.

(Biography appeared previously in document)

## **Roundtable Topics Marketplace**

Roundtable Discussions—Wednesday Afternoon

Following the panel discussions, roundtable discussion groups will be formed to explore topics of mutual interest in greater depth. Topics may include: questions raised by panelists; ways to implement GI-LID practices in the Middle Rio Grande regions; constraints faced by different organizations; or any other GI-LID-related subject.

Groups will be formed using Open Space Technology principles. Throughout the workshop, ideas for discussion groups will be posted on a wall named the 'Roundtable Topics Marketplace,' and those interested in any topic may sign up for that group. Following the last panel, all topics will be announced and groups will be formed. Each group will decide its own format, discussion items and actions to be taken. The intent is to focus on topics that matter, and allow participants to determine the appropriate courses of action.

## The Bernalillo County Perspective

## **Thaddeus Lucero**

As Bernalillo County's Chief Administrative Officer, County Manager Thaddeus Lucero oversees the operation of four divisions, 25 departments and some 2500 employees. He was hired by the County Commission in September 2003 and brings nearly 25 years experience in government management to the position.

Since his appointment as County Manager, he has overseen numerous large scale, historic projects including the multi-million dollar South Valley Drinking Water Project; the transition of the Metropolitan Detention Center to the County in July 2007 and the expansion of the Community Custody Program; a Juvenile Detention Center initiative that has reduced the facilities' population from 5000 to 3000 or fewer residents per year through the use of progressive, alternative programs; the opening of MATS, a public, substance abuse treatment facility that provides a continuum of care along with a transitional housing component; the opening of South Valley Health Commons



offering a wide range of comprehensive health care; and the completion of the Edith Boulevard reconstruction project. He also implemented the County's two-year budget cycle and maintains a moderate budget with continued stable growth in main revenue sources including gross receipts and property taxes resulting in a healthy bottom line. Under his budget leadership, Bernalillo County now has a AAA Bond Rating which is the highest rating of any county in the State of New Mexico.

Mr. Lucero started with Bernalillo County in January 1992 as a senior zoning inspector after relocating to Albuquerque from Seattle where he served as the city's Neighborhood Planner and Economic Development Manager. In 1994, he became the Director of Zoning, Building, and Planning. In January 1998, he was promoted to Director of the County's Community Services Division.

He was born and raised in the North Valley and graduated from Valley High School. In 1977 he moved to Seattle, Washington where he graduated from the University of Washington with a B.A. in Urban Planning in 1981. He attended the JFK School of Government-Harvard University Program for Senior Executives in July 1996. He is currently a member of the American Planning Association, a non-profit public interest and research organization representing 39,000 practicing planners, officials, and citizens involved in urban and rural planning issues; and of National Association of Latino Elected and Appointed Officials (NALEO), an organization that enhances governance skills and deepens the understanding of critical policy issues, and of Government Finance Officers Association (GFOA), an organization which promotes the professional management of governments for the public benefit.

#### **GI-LID for Semi-Arid Climates**

(Note: The following 4 presentations will be under this general topic)

# Identifying Barriers to Low Impact Development and Green Infrastructure in the Albuquerque Area

KT Labadie

In this presentation the speaker will summarize the findings from her graduate research titled: *Identifying Barriers to Low Impact Development and Green Infrastructure in the Albuquerque Area.* The barriers were identified through a focus group with local professionals in the development, water, and flood control communities. In addition to a summary of findings, insights and recommendations for overcoming barriers will be presented.

KT LaBadie recently completed a dual-masters degree in Water Resources and Community and Regional Planning at the University of New Mexico. Her professional project for this degree examined the barriers related to Low Impact Development and Green Infrastructure implementation in the Albuquerque area. KT is passionate about watershed management, sustainable urban design, and food



systems planning in arid regions. She also has a B.A. from Ohio Wesleyan University in Environmental Science and Psychology and a professional background in planning and environmental education.

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#### **LEED for LID**

Susie Marbury

Chair, US Green Building Council, New Mexico Chapter

This presentation covers how the LEED rating system, and particularly LEED for Neighborhood Development, addresses LID.

Susie Marbury, a LEED Accredited Professional with a Master of Architecture from the University of New Mexico, administers the Energy Efficiency and Green Building programs for the State of New Mexico's Energy, Minerals and Natural Resources Department. Susie previously provided LEED consulting services for a local architecture firm and brings a broad understanding of the issues involved in making the built environment more sustainable.

Susie was instrumental in establishing the U.S. Green Building Council (USGBC) New Mexico Chapter and currently serves as the Chapter Chair. In her capacity with the state energy office, she assisted in passing the legislation for and is currently administering New Mexico's Sustainable Building Tax Credits program and the Department of Energy sponsored "Moving Toward Zero Energy Homes" program. She also manages other initiatives that are products of Governor Richardson's executive orders and the federal State Energy Program, including improving building codes and providing education and outreach for energy-efficient building practices.

Throughout her career, Susie has established strong partnerships with collaborating organizations and sustainably-minded professionals, in the belief that it will help make "green" the norm and lead to solutions to climate change problems.

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## The Right Tree in the Right Place

Nick Kuhn

City Forester, City of Albuquerque

Nick will discuss how planned use of vegetation, especially trees, can be a factor in utilizing excess stormwater effectively. Recent studies completed in Albuquerque provide the data and baseline information to move forward with a comprehensive



urban forestry program. Trees function as solar powered environmental tools that pump and filter water while reducing heat island impacts, providing pedestrian safety, and improving business and property value. The "right tree in the right place" provides multiple benefits that should be built into municipal improvement plans.

Nick Kuhn has a B.S. in Forest Resource Management, is an International Society of Arboriculture Certified Arborist with a Municipal Specialization, and has worked in forestry for nearly 20 years. Nick is a Technical Committee member of the Sustainable Sites Initiative working on updating LEED building standards; a Technical Committee member of the ICLEI STAR rating system providing municipal governments a rating system on their sustainability and climate change management programs; and a board member of the Society of Municipal Arborists and the New Mexico State Urban Forestry Council.

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# LID Implementation in California: Resources and Lessons Learned Vaikko Allen

Southwest Regulatory Manager, Contech Stormwater Solutions

Several Low Impact Development manuals and BMP sizing tools have been developed recently in California in response to new phase I NPDES permit requirements. Throughout the process it has become apparent that some implementations developed for wetter climates may not be directly applicable in the arid urban environment. In particular, seasonality and low amount of annual precipitation, potable water scarcity, water rights law and native vegetation considerations impact site design. Other issues that are independent of climate have also been identified as requiring special innovation including code conflicts, construction issues, maintenance access and authority, and challenges in accurate hydrologic modeling when numerous small scale BMPs are used. An overview of the California LID implementation experience will be given with emphasis on resources and lessons learned.

LID Manuals from San Diego and Los Angles Counties will be introduced as well as a draft manual intended for use in all of Southern California. BMP sizing and cost estimation tools from the Water Environment Research Federation, Contra Costa County, Bay Area Storage Management Agencies Association (BASMAA), and others will be reviewed.

Vaikko Allen is the Southwest Regulatory Manager for CONTECH Construction Products Inc. where he assists regulators, engineers, and environmental organizations in the development of regulations that are clear, implementable, and protective of the public waters. Throughout his 14 years of stormwater management experience, he has managed BMP testing programs, new product development



initiatives and been involved in numerous work groups providing technical guidance on TMDL implementation, hydromodification planning, and low impact development. Formerly, Vaikko served as Technical Manager of Vortechnics, Inc. a rapidly growing stormwater BMP provider that was acquired by Contech in 2004. He holds a bachelor's degree in Environmental Science and Policy from the University of Southern Maine with a concentration in Water Resources. He holds patents for several stormwater BMPs.

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# Local GI-LID Examples: Installation, Operation and Maintenance

(Note: The following 4 presentations will be under this general topic)

## LID Applications at Sandia National Laboratories

Roy Hertweck

Distinguished Member, Technical Staff, Sandia National Laboratories

Roy will discuss low impact development practices on a high impact laboratory & industrial site at Sandia National Laboratories. There will be examples of successes and failures in particular projects.

Roy Hertweck is strategic planner and Distinguished Member of the Technical Staff at Sandia National Labs Albuquerque site. He works in Strategic Customer Partnership for one of the Nuclear Weapons Strategic Management Groups to identify mission needs, integration of the corporate facility and infrastructure context, and the planning of site development at the Sandia National Laboratories (SNL) Albuquerque campus.

Roy has worked at SNL for the past 16 years, first as an architectural representative on large project teams, then as the Corporate Architect addressing projects across the spectrum of corporate development, and for the last six years as a site planner. He is a principle contributor to the development of the SNL Long-Range Development Plan and the Campus Design Guidelines as well as incremental site development of the campus.

Roy is a registered architect in New Mexico and Arizona, holds an NCARB certificate, and is a LEED accredited professional. He has completed the three-step course for the Planning Institute course of study of the Society for College and University Planning. He has 33 years of professional experience in architecture and planning including 16 years in private sector work. He completed a B.S. in Architecture from Pennsylvania State University and a M.Arch. degree from the University of New Mexico.



Mr. Hertweck is a member of the American Institute of Architects (AIA), a past president of AIA Albuquerque, and is currently President of the New Mexico Architecture Foundation. He is a member of the U.S. Green Building Council, New Mexico Chapter, and a board member of Rebuild New Mexico.

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#### SSCAFCA Facilities

David Stoliker
Southern Sandoval County Arroyo Flood Control Authority (SSCAFCA)

Dave has been a life-long environmentalist beginning with growing up on a farm in Michigan, where he learned the value of tending to the needs of the crops they grew and animals they raised. As a high school freshman, he read about Love Canal in Time magazine and decided to go to Michigan to learn how to remediate environmental issues. His first job was with EPA in Washington, D.C., and he has never looked back. He loves his work and is constantly trying to push the envelope to promote harmony between development and the environment. His latest project was to construct a leed-certified, platinum addition to his organization's building which has sufficient solar cells to provide an annual "net zero" energy usage.

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## Hahn Arroyo Project, Phase 1

Kevin Daggett, Stormwater Quality Engineer
Albuquerque Metropolitan Area Flood Control Authority (AMAFCA)

Kevin will describe the plans for rehabilitation of the Hahn Arroyo using LID techniques. The Hahn Arroyo is a tributary to the North Diversion Channel in northeast Albuquerque and its watershed is fully urbanized. The Arroyo was concrete-lined in the mid 1960s and the concrete channel is at the end of its service life. The need for channel rehabilitation has become very apparent due to recent channel failures and increased maintenance costs.

In Phase I, the project will have three basic elements: channel rehabilitation (demo and reconstruction with added esthetic elements like meandering, tinted concrete, and varying cross sections), stormwater quality & harvesting (channel diversions, stormwater quality facilities, cisterns, gravity irrigation, and on-site rainfall retention) and multi-use amenities (bike path, trail, landscaping, pedestrian median refuges at street crossings, shade structures, park benches, and plaza areas). The Project will



incorporate the reuse of materials from existing facilities such as concrete from the channel and asphalt from the bike path. It is hoped that the Project will set a new standard going forward with regard to how urban drainage corridors are rehabilitated not only in the Albuquerque area, but perhaps throughout the country.

Kevin has over 30 years of experience in both the Civil Engineering and Land Surveying fields. He is registered as both a Professional Engineer and Land Surveyor in the States of New Mexico and Colorado. He holds a Bachelor of Science degree in Geology from Mesa State College in Grand Junction, Colorado and a Master of Science degree in Civil Engineering from New Mexico State University in Las Cruces, New Mexico. He has worked primarily in the private sector as a consultant throughout his most of his career. He currently holds the position of Stormwater quality Engineer with the Albuquerque Metropolitan Arroyo Flood Control Authority (AMAFCA).

Kevin is responsible for maintaining AMAFCA's compliance with their EPA MS4 permit. He also provides project management for the ever-evolving, stormwater quality facilities that AMAFCA continues to design and build in an effort to improve the quality of Albuquerque's urban runoff and lessen its impact on the Rio Grande.

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## **Domestic Stormwater Capture and Use**

Vern Hershberger, Environmental Health Manager University of New Mexico

In this presentation, Vern Hershberger will explain what he's done to retrofit his home for water conservation and how he operates and maintains the low-budget systems in various seasons. The intent is to show that water conservation retrofits can be constructed and operated on existing homes even as a do-it-yourself project.

In addition to low-flow fixtures inside the home, these external systems save Vern's family of 5 over 6,000 gallons per year of drinking water that would otherwise be pumped from groundwater. The more than 6,000 gallons of greywater and captured stormwater are used primarily to irrigate fruit trees, a small plot of shaded turf, a vegetable garden, and other landscaping plants. Vern uses both above-grade and subterranean irrigation in his system. The presentation will contain some lessons learned and tips for others that might be interested in doing so at their homes.

Vern Hershberger is the Environmental Health Manager at UNM. He holds a B.S. in Construction Engineering and a Masters in Environmental Management Technology,



both from Arizona State University. For over 13 years, he has focused on various water projects--stormwater, groundwater, drinking water, and water reuse--and air quality projects, as well as managing other environment, health, and safety (EH&S) and industrial hygiene programs at UNM. Prior to that, Vern was a an engineer for Earth Tech in Arizona and Groundwater Technology Inc./Fluor Daniel GTI, Inc. in New Mexico where he helped design and construct groundwater and soil remediation systems.

Vern is interested in realistic (as opposed to utopian) environmental stewardship extends home where he installed and operates (and occasionally tweaks) low-cost custom greywater & stormwater irrigation systems and solar PV power systems.

## The New Mexico Office of the State Engineer Perspective

John D'Antonio, State Engineer New Mexico Office of the State Engineer

A registered professional engineer in New Mexico and Colorado, State Engineer John D'Antonio has experience in hydraulic design, acequia rehabilitation, water resource management, and water policy development.

Before he was appointed by Governor Bill Richardson to the state's chief water post, D'Antonio was Cabinet Secretary of the New Mexico Environment Department in 2002. He served as the Director of the Water Resource Allocation Program for the Office of the State Engineer from 2001 to 2002 and served as the District 1 Supervisor in Albuquerque from 1998 to 2001.

D'Antonio worked 15 years with the U.S. Army Corps of Engineers as a hydraulic design engineer, as the Chief of the Hydrology, Hydraulics, Sedimentation, and Floodplain Management Program, and was the project manager for the Acequia Rehabilitation Program. A native New Mexican, D'Antonio received a bachelor's degree in civil engineering from the University of New Mexico in 1979. He has been a member of the Governor's Blue Ribbon Task Force on Water Issues from 1998 to the present.

In his post as State Engineer, D'Antonio is secretary of the Interstate Stream Commission, Chairman of the Water Trust Board, Governor's Water Infrastructure Investment Team, and the Governor's Drought Task Force. He is also the New Mexico Commissioner to the Rio Grande, Costilla, and Upper Colorado river compacts.

D'Antonio and his wife, Cassandra, along with their son, Nick, make their home in Albuquerque.

**Local Challenges to GI-LID** 



(**Note**: This will be a facilitated discussion with the following panel members)

## **George Radnovich**

Senior Principal, Sites Southwest

George Radnovich is a Founding Principal of Sites Southwest, a firm with offices in Albuquerque New Mexico and El Paso Texas. The firm is a leader in the newly emerging field of Integrated Sites; the planning, design and management of complex ecosystems that create healthy communities. As such he supplies a broad spectrum of planning and design expertise to both public and private sectors throughout the arid lands region of the United States. Through his professional practice, Mr. Radnovich has developed an approach to land and landscape design which stems from ecology and integrates into the built environment. George is most well known for his efforts to create a more regional approach to the site and landscape through his work with water conservation, Xeriscape, and green building. He co-founded the New Mexico Xeriscape Council in 1987 and the Green Alliance of New Mexico (now NMUSGBC) and has promoted environmentally appropriate design throughout his career. He has lectured at workshops and conferences throughout the Southwestern United States and Mexico on the subject. Topics have ranged from the use of native plants and environmentally sensitive landscape design to water harvesting and habitat restoration. George has provided this expertise for numerous projects. He has extensive experience in the multi firm and agency coordination exemplified by his efforts with Urban and Rural Streetscapes, Planned Communities, Biological Parks and Botanical Gardens, and other restorative projects. His firm received a national ASLA award in 2005 for planning 22 miles of the Rio Grande in Albuquerque New Mexico: the Rio Grande Bosque Restoration Project.

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### **Jess Ward**

District 1 Supervisor, Office of the State Engineer

As District 1 Supervisor in the Water Rights Division at the Office of the State Engineer (OSE), Jess Ward oversees the administration of water rights in the middle Rio Grande, Bluewater, Estancia, Gallup, and Sandia Underground Water Basins and stream systems. He has worked for the OSE for over 21 years, beginning in the District IV office.



Jess holds a B.S. in Agricultural Engineering from New Mexico State University and lives in Los Lunas, New Mexico, with his wife, Monica, and nine-year-old daughter, Cameron.

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## **Bruce Stidworthy**

Vice President, Bohannan Huston, Inc.

Bruce Stidworthy is a Vice President and Group Leader in Bohannan Huston, Inc.'s

(BHI) Community Development and Planning group and is responsible for managing all aspects of the civil design effort for a wide range of projects. Bruce's specialty is land development projects such as recreational facilities, mixed-use developments, educational facilities, medical facilities, professional offices, retail facilities, hotels, and office/industrial parks.

Bruce's broad technical design experience includes planning and design of site drainage, water harvesting elements, water systems, sanitary sewer systems and roadway improvements. He is a LEED Accredited Professional and has provided design services for several LEED certified projects.

In addition to his technical skills, Bruce is an adept project manager who recognizes the importance of schedule and budgetary constraints. He has considerable experience working with architects, private sector developers, and public sector clients. His experience with public approval bodies such as planning commissions and boards is an important component leading to project approvals. He has worked with neighborhood associations and public review processes to help bring resolution to difficult issues.

## Project Experience:

Various Projects at Mesa Del Sol, Provided design input and design review for several projects at Mesa Del Sol, including the ABQ Studios, Schott Solar and the LEED Certified Advent Solar building and the LEED Certified Innovation Park Building 2. Also participated in the design of the open space infiltration basin adjacent to Innovation Park Building 2.

ABQ Uptown, Overall project manager for the civil design of ABQ Uptown, including offsite infrastructure and the onsite grading, drainage and utilities.



Santa Fe Railyards, Group leader providing oversite and quality control for all public and private site infrastructure.

Volcano Vista High School, Group leader providing oversite and quality control for site grading, drainage and utilities.

Bruce is affiliated with the National Association of Industrial and Office Properties, U.S. Green Building Council (USGBC), and the Urban Land Institute.

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## **Brad Bingham**

Hydrology Section Head, Planning Department, City of Albuquerque

Brad graduated from UNM in 1986 and spent 6 years as a Structural Engineer with a national consulting firm, designing projects for SNL, LANL, Department of Energy and Department of the Interior, followed by another 6 years as a general civil engineer, designing subdivisions and commercial sites. He started with the City of Albuquerque in late 1999 as a Senior Engineer reviewing drainage plans and is now the Section Head for the Hydrology section of the Planning Dept. Brad is also the City Engineer's representative on the Development Review Board; the City's Floodplain Administrator, reviewing and endorsing Letters of Map Revision requests to FEMA; and the City's AMAFCA designee for coordination with that agency. In his spare time, Brad enjoys golf and Frisbee sports.

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## **Workshop Facilitators and Moderators**

## **Timothy Karpoff**

Karpoff & Associates

Tim has over 30 years experience in community and organizational development, meeting facilitation, strategic planning, and multi-party collaboration. He worked for 16 years as a regional director and vice president of the Institute of Cultural Affairs (ICA) in the United States, the Philippines and Malaysia, organizing community-based integrated development programs, and providing strategic planning consulting for national and multinational businesses and agencies. Since 1992, he has been based in Albuquerque, helping community groups, businesses and government



organizations plan effectively and explore complex issues through well-designed workshops and conversations that matter. He has a B.A. from Yale University.

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**Leslie R. Kryder**, M.A., M.W.R. Owner, Leslie Consulting, LLC

Leslie Kryder completed a Master's of Water Resources in 2009. As a hydrologist, she does water resources planning, water rights research, facilitation and education, and GIS work.

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## **Danny Hernandez**

Vice-Chair, AMAFCA

Danny Hernandez has been on the Albuquerque Metropolitan Arroyo Flood Control Authority Board of Directors for 11 years, was a founding member of the Mid-Region Council of Governments Water Resources Board and was a member of the Mid-Rio Grande Water Assembly. He is also a dual degree masters student in Public Administration and Community and Regional Planning at UNM.

#### Isaac Benton

City Councilor, City of Albuquerque

Isaac Benton is a Bachelor of Architecture graduate of the Rhode Island School of Design. He came to Albuquerque 32 years ago as a VISTA volunteer architect at UNM's Design and Planning Assistance Center. He worked for several Albuquerque firms and began his own practice in 1991. He is a LEED-accredited architect and licensed general contractor. His practice focuses on library, mixed-use, educational, affordable housing, and senior/community center projects and sustainable design services.

In 2005 and 2009, Isaac was elected to the Albuquerque City Council to represent District 3. As a city councilor, he is using his knowledge of the built environment to help reshape the way the city grows and prospers. His primary areas of interest, both in his private architectural practice and as a city councilor, include redevelopment and infill projects that are sustainable and sensitive to existing neighborhood character, comprehensive transportation and transit planning, and the



implementation of new city policies and zoning regulations that allow for healthier and more diverse patterns of urban fabric.